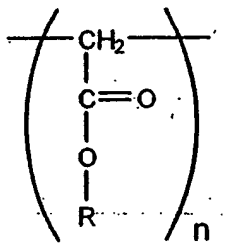
IN THE CLAIMS

Please amend the claims as follows:

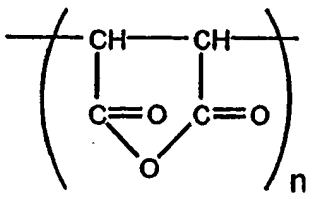
1. (Canceled)

2. (Currently Amended) The gel electrolyte according to claim ~~1~~ 17, wherein ~~a structure~~ the carboxyl moiety containing monomer is expressed by a chemical formula 1 and/or a chemical formula 2 shown below (here, R indicates any one selected from the group consisting H, CH_3, C_2H_5, C_3H_7, C_4H_9, and C_5H_{11}) ~~is introduced into said copolymer~~.

[Chemical Formula 1]



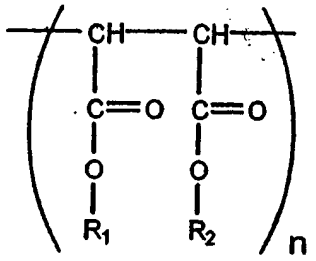
[Chemical Formula 2]



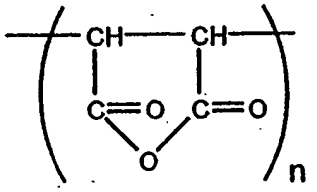
3. (Currently Amended) The gel electrolyte according to claim ~~1~~ 17, wherein ~~a structure indicated~~ the carboxyl moiety containing monomer is expressed by a chemical formula 3 and/or a chemical formula 4 shown below (here, R_1 and R_2 respectively designate

any one selected from the group consisting of H, CH_3, C_2H_5, C_3H_7, C_4H_9, and C_5H_{11}) ~~is introduced into said copolymer~~.

[Chemical Formula 3]



[Chemical Formula 4]



4. (Currently Amended) The gel electrolyte according to claim ~~1~~ 17, wherein ~~said copolymer~~ the carboxyl moiety containing monomer unit ~~includes at least one kind of material~~ is selected from the group consisting of maleic acid, ester maleate and maleic anhydride ~~as a monomer unit and at least one kind of structure selected from structures obtained by esterifying a part or all of the carboxyl group or the carboxylic acid or the acetic anhydride structure is introduced into said copolymer.~~.

5. (Currently Amended) The gel electrolyte according to claim ~~1~~ 17, wherein ~~at least one kind of material selected from the group consisting of the ester maleic acid, the~~

~~maleate and the maleic anhydride~~ the vinylidene fluoride is polymerized with ~~vinylidene fluoride so as to locate~~ the carboxyl moiety containing monomer ~~unit ratio~~ with a ~~relative to vinylidene fluoride~~ ratio within a range of 25/10000 to 30/1000.

6. (Canceled)

7. (Currently Amended) The gel electrolyte according to claim ~~1~~ 17, wherein molecular weight of said ~~copolymer~~ carboxyl moiety containing monomer ranges from 0.8 dl/g to 3.0 dl/g on the basis of an intrinsic viscosity notation.

8. (Canceled)

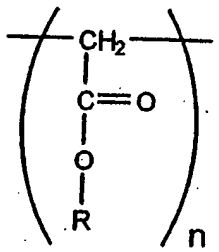
9. (Currently Amended) The nonaqueous electrolyte battery according to claim ~~8~~ 18, wherein said anode includes at least one kind of carbon material selected from the group consisting of lithium metal, lithium alloy and a carbon material capable of being doped/dedoped with lithium.

10. (Currently Amended) The nonaqueous electrolyte battery according to claim ~~8~~ 18, wherein said cathode includes a composite oxide consisted of lithium and transition metals.

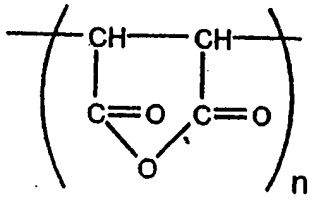
11. (Currently Amended) The nonaqueous electrolyte battery according to claim ~~8~~ 18, wherein ~~a structure~~ the carboxyl moiety containing monomer is expressed by a chemical formula 5 and/or a chemical formula 6 shown below (here, R indicates any one selected from

the group consisting of H, CH_3, C_2H_5, C_3H_7, C_4H_9, and C_5H_{11}) ~~is introduced into said copolymer~~.

[Chemical Formula 5]

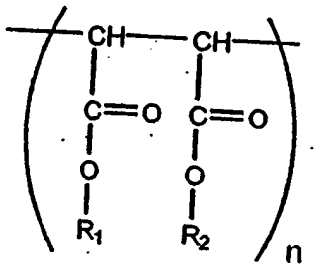


[Chemical Formula 6]

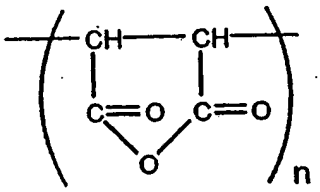


12. (Currently Amended) The nonaqueous electrolyte battery according to claim ~~8~~, 18 wherein ~~structure indicated~~ the carboxyl moiety containing monomer is expressed by a chemical formula 7 and/or a chemical formula 8 shown below (here, R_1 and R_2 respectively designate any one selected from the group consisting of H, CH_3, C_2H_5, C_3H_7, C_4H_9, and C_5H_{11}) ~~is introduced into said copolymer~~.

[Chemical Formula 7]



[Chemical Formula 8]



13. (Currently Amended) The nonaqueous electrolyte battery according to claim ~~12,~~ 18, wherein ~~said copolymer~~ the carboxyl moiety containing monomer unit ~~includes at least one kind of material~~ is selected from the group consisting of maleic acid, ester maleate and maleic anhydride ~~as a monomer unit and at least one kind of structure selected from structures obtained by esterifying a part or all of the carboxyl group or the carboxylic acid or the acetic anhydride structure is introduced into said copolymer.~~.

14. (Currently Amended) The nonaqueous electrolyte battery according to claim ~~12,~~ 18, wherein ~~at least one kind of material selected from the group consisting of the ester maleic acid, the maleate and the maleic anhydride~~ the vinylidene fluoride is polymerized with ~~vinylidene fluoride so as to locate~~ the carboxyl moiety containing monomer ~~unit ratio~~ with a ~~relative to vinylidene fluoride~~ ratio within a range of 25/10000 to 30/1000.

15. (Canceled)

16. (Currently Amended) The nonaqueous electrolyte battery according to claim ~~8,~~ 18, wherein the molecular weight of said copolymer ranges from 0.8 dl/g to 3.0 dl/g on the basis of an intrinsic viscosity notation.

17. (New) A gel electrolyte comprising:

a nonaqueous electrolyte solution comprising an electrolyte salt containing Li dissolved in a nonaqueous solvent, and

a matrix polymer prepared by polymerizing monomers, the monomers comprising:

vinylidene fluoride;

hexafluoropropylene; and

a carboxyl moiety containing monomer,

wherein the matrix polymer is an ester, a carboxylic acid anhydride or both.

18. (New) A gel electrolyte comprising:

an anode,

a cathode,

a nonaqueous electrolyte solution comprising an electrolyte salt containing Li dissolved in a nonaqueous solvent, and

a matrix polymer prepared by polymerizing monomers, the monomers comprising:

vinylidene fluoride;

hexafluoropropylene; and

a carboxyl moiety containing monomer,

wherein the matrix polymer is an ester, a carboxylic acid anhydride or both.